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R^2 is a straight-chained alkyl moiety selected from the group consisting of $-(CH_2)_3CH_3$, $-(CH_2)_5CH_3$, $-(CH_2)_7CH_3$ and $-(CH_2)_9CH_3$, or an alkenyl group or alkynyl group having from 1 to 23 carbon atoms in the aliphatic chain;

Z^2 is a phosphorylcholine attachment-inhibiting group selected from the group consisting of $-X^1$, $-OX^1$, $-X^2X^3$ and $-OX^2X^3$;

X^1 is selected from the group consisting of $-C(O)H$, $-CO_2H$, CH_3 , $C(CH_3)_3$, $Si(CH_3)_3$, $SiCH_3C(CH_3)_3$, $Si(C(CH_3)_3)_2$, $Si(C(CH_3)_3)_3$, $Si(PO_4)_2C(CH_3)_3$, a phenyl group, an alkyl-substituted phenyl group having from 1 to 6 carbons in the alkyl chain, an alkyl chain having from 1 to 6 carbons, an amino group, a fluorine, a chlorine, and a group having the formula $C(R^3R^4)OH$;

X^2 is selected from the group consisting of CH_2 , $C(CH_3)_2$, $Si(PO_4)_2$, $Si(CH_3)_2$, $SiCH_3PO_4$, $C(O)$ and $S(O)_2$;

X^3 is selected from the group consisting of $-C(O)H$, $-CO_2H$, $-CH_3$, $-C(CH_3)_3$, $-Si(CH_3)_3$, $-SiCH_3C(CH_3)_3$, $-Si(C(CH_3)_3)_2$, $-Si(C(CH_3)_3)_3$, $-Si(PO_4)_2C(CH_3)_3$, a phenyl group, an alkyl-substituted phenyl group having from 1 to 6 carbons in the alkyl chain, an alkyl chain having from 1 to 6 carbons, an amino moiety, a chlorine, a fluorine, or a group having the formula $C(R^3R^4)OH$, wherein each of R^3 and R^4 is independently an alkyl chain having from 1 to 6 carbons, a phenyl group or an alkyl-substituted phenyl group having from 1 to 6 carbons in the alkyl chain;

wherein when Z^2 is an amino group, R^2 is an aliphatic chain having from 1 to 9 or from 19 to 23 carbon atoms in the aliphatic chain;

and wherein the compound comprises at least about 5 mole percent of the lipid.

16. (amended) A compound having the formula $R^1-Y^1-CHZ^1-CH(NY^2Y^3)-CH_2-Z^2$, wherein:

R^1 is a straight-chained alkyl, alkenyl or alkynyl group having from 5 to 19 carbon atoms in the aliphatic chain;

Y^1 is $-CH=CH-$, $-C\equiv C-$ or $-CH(OH)CH(OH)-$;

Z^1 is OH or a phosphorylcholine attachment-inhibiting group selected from the group consisting of $-X^1$, $-OX^1$, $-X^2X^3$ and $-OX^2X^3$;

Y^2 is H, a phenyl group, an alkyl-substituted phenyl group having from 1 to about 6 carbons in the alkyl chain, or an alkyl chain having from 1 to 10 carbons;

Y^3 is H or a group having the formula $-C(O)R^2$ or $-S(O)_2R^2$;

R² is a straight-chained alkyl moiety selected from the group consisting of -(CH₂)₃CH₃, -(CH₂)₅CH₃, -(CH₂)₇CH₃ and -(CH₂)₉CH₃, an alkenyl group having from 1 to 23 carbon atoms in the aliphatic chain and an alkynyl group having from 1 to 23 carbon atoms in the aliphatic chain;

Z² is OH or a phosphorylcholine attachment-inhibiting group selected from the group consisting of -X¹, -OX¹, -X²X³ and -OX²X³;

X¹ is selected from the group consisting of -C(O)H, -CO₂H, CH₃, C(CH₃)₃, Si(CH₃)₃, SiCH₃(C(CH₃)₃)₂, Si(C(CH₃)₃)₃, Si(PO₄)₂C(CH₃)₃, a phenyl group, an alkyl-substituted phenyl group having from 1 to 6 carbons in the alkyl chain, an alkyl chain having from 1 to 6 carbons, an amino group, a fluorine, a chlorine, and a group having the formula C(R³R⁴)OH;

X² is selected from the group consisting of CH₂-, C(CH₃)₂-, Si(PO₄)₂-, Si(CH₃)₂-, SiCH₃PO₄-, C(O)- and S(O)₂-;

X³ is selected from the group consisting of -C(O)H, -CO₂H, -CH₃, -C(CH₃)₃, -Si(CH₃)₃, -SiCH₃(C(CH₃)₃)₂, -Si(C(CH₃)₃)₃, -Si(PO₄)₂C(CH₃)₃, a phenyl group, an alkyl-substituted phenyl group having from 1 to 6 carbons in the alkyl chain, an alkyl chain having from 1 to 6 carbons, an amino moiety, a chlorine, a fluorine, or a group having the formula C(R³R⁴)OH, wherein each of R³ and R⁴ is independently an alkyl chain having from 1 to 6 carbons, a phenyl group or an alkyl-substituted phenyl group having from 1 to 6 carbons in the alkyl chain;

wherein when Z² is an amino group, R² is an aliphatic chain having from 1 to 9 or from 19 to 23 carbon atoms in the aliphatic chain.

27. (amended) The compound of claim 16 having the formula CH₃(CH₂)₁₂-CH=CH-CHZ¹-CH(NHY³)-CH₂-Z²;